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Space Administration

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Current NPP Sounder PEATE Processing Capabilities

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NPP Sounder PEATE Operations
Jet Propulsion Laboratory
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What Sounder PEATE Ingests

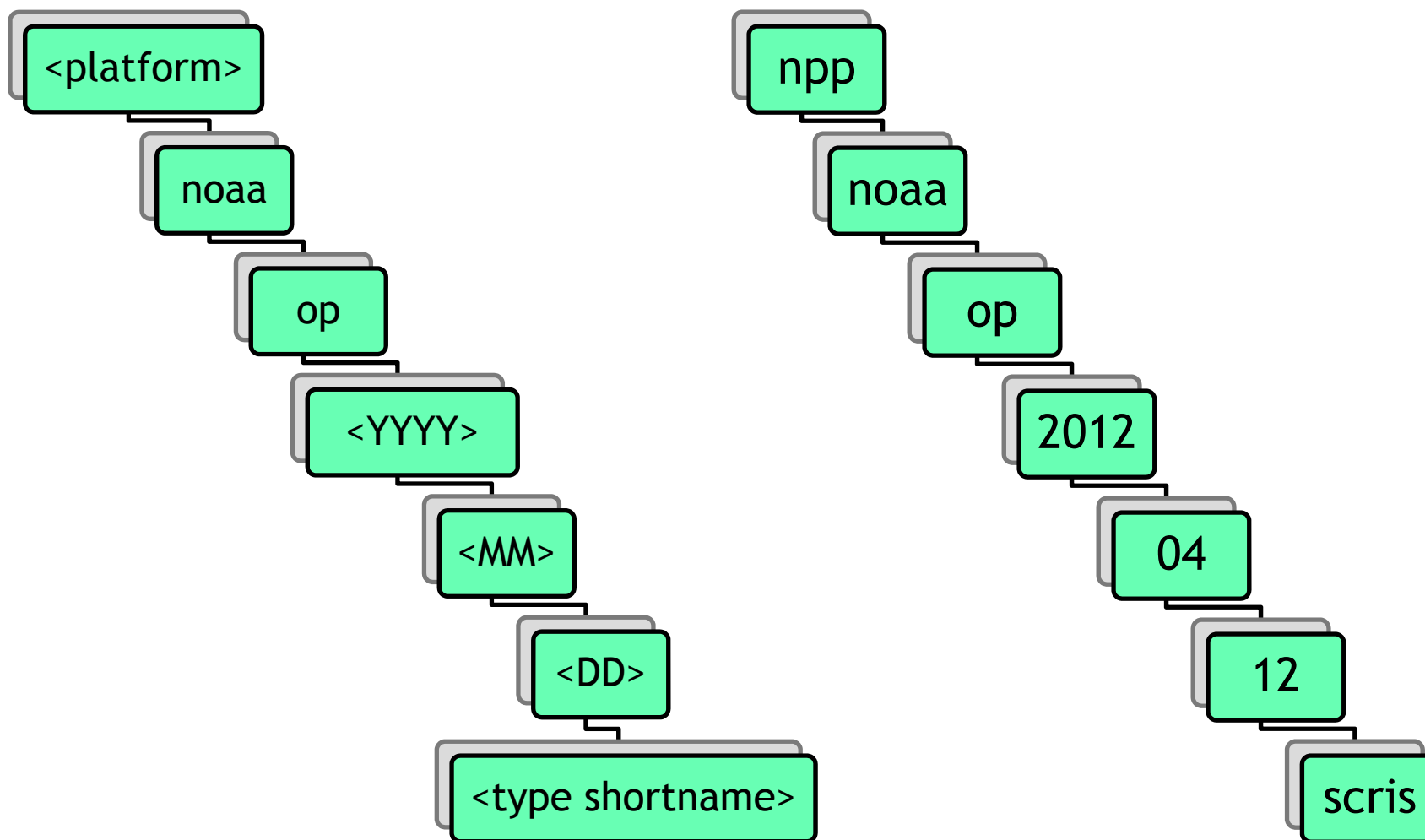
- **NPP:**
ATMS CRIS data: all SDRs TDRs EDRs IPs, selected RDRs
- **MetOp-A, MetOp-B (planned):**
IASI L1C, AMSUA L1B, MHS L1B, MIIRS L2 SND, MIIRS L2 IMG
- **NOAA18 and NOAA19:**
AMSUA L1B, MHS L1B, MIIRS L2 SND, MIIRS L2 IMG
- **Access to AIRS archive**
- **Access to PrepQC, ECMWF data (via AIRS archive)**
- **Other:**
 - RTG SST, FNMOC NOGAPS, NCEP GFS



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Where to find ingested data... e.g. SCRIS





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Operations Ingest Data Report

			2012-04-12	2012-04-13	2012-04-14	2012-04-15	2012-04-16	2012-04-17	2012-04-18	2012-04-19
MOA_IASI_L1C	iasa_l1c	480	471*	480	469*	480	480	480	480	480
MOA_AMSUA_L1B	amsua_l1b	16	27*	27*	27*	28*	25*	26*	24*	25*
MOA_MHS_L1B	mhs_l1b	16	27*	27*	27*	28*	25*	26*	24*	25*
NON_AMSUA_L1B	amsua_l1b	16	14*	14*	15*	14*	14*	14*	14*	14*
NON_MHS_L1B	mhs_l1b	16	14*	14*	15*	14*	14*	14*	14*	14*
NOP_AMSUA_L1B	amsua_l1b	16	16*	16*	14*	14*	14*	14*	14*	14*
NOP_MHS_L1B	mhs_l1b	16	16*	16*	14*	14*	14*	14*	14*	14*
RTG_SST_G1			1	1	1	1	1	1	1	1
GFS	gfs	32	32	32	32	32	32	27*	27*	32
NOGAPS	nogaps	32	32	32	32	32	32	24*	16*	32
NPP_SC_DIARY	rnsca	4800	4341*	4341*	4333*	4335*	4349*	4334*	4334*	4430*
NPP_ATMS_RDR_WSCD	ratms_rnsca	180	233*	217*	207*	216*	226**	210*	231*	208**
NPP_ATMS_SDR	satms	180	180	180	180	180	181*	180	180	180
NPP_ATMS_SDR_GEO	gatmo	180	180	180	180	180	181*	180	180	180
NPP_ATMS_TDR	tatms	180	180	180	180	180	181*	180	180	180
NPP_ATMS_RMSDR	satmr	180	236*	339**	182*	182*	181*	185*	193*	182*
NPP_ATMS_RMSDR_GEO	gatro	180	236*	340**	182*	182*	181*	185*	193*	182*
NPP_ATMS_TRDR	ratmt	180	185*	190*	180	187*	187*	180	180	186**
NPP_CRIS_RDR_WSCD	rcris_rnsca	180	329**	298*	245*	271*	282**	259*	284*	256**
NPP_CRIS_SDR	scris	180	195*	193*	180	180	182*	180	180*	180
NPP_CRIS_SDR_GEO	gcrso	180	195*	193*	180	180	182*	180	180*	180
NPP_CRIS_TRDR	rcrit	180	191*	182*	180	187*	194**	180	180	186**
NPP_CRIMSS_EDR	redro	180	306*	422*	210*	219*	227*	225*	228*	227*
NPP_CRIMSS_EDR_GEO	gcric	180	306*	426*	210*	219*	227*	225*	228*	227*
NPP_CRIMSS_CCR_IP	icccr	2700	2997**	3837**	2746**	2760**	2801**	2763**	2802**	2763**
NPP_CRIMSS_IRSE_IP	icise	2700	2999**	3905**	2746**	2761**	2802**	2763**	2803**	2763**
NPP_CRIMSS_IRMP_IP	icali	2700	2984**	3799**	2745**	2759**	2801**	2762**	2801**	2762**
NPP_CRIMSS_MWMP_IP	icalm	2700	2984**	3862**	2745**	2759**	2802**	2763**	2802**	2762**
NPP_CRIMSS_MWSE_IP	icmse	2700	3000**	3903**	2745**	2762**	2802**	2762**	2802**	2764**
NPP_CRIMSS_ST_IP	icstt	2700	3003**	3889**	2746**	2762**	2804**	2765**	2804**	2763**
NPP_CRIMSS_IRTP_IP	ictli	2700	2984**	3817**	2745**	2760**	2801**	2763**	2802**	2762**
NPP_CRIMSS_MWTP_IP	ictlm	2700	2986**	3834**	2745**	2760**	2801**	2762**	2802**	2763**
NPP_CRIS_O3_IP	liroo	180	306*	424*	210*	219*	227*	225*	228*	227*
NPP_CRIS_IRDR	rcrli	180	146*	146*	144	145*	147*	144	144	149*
NPP_CRIS_MRDR	rcrim	180	146*	146*	144	145*	147*	144	144	149*

- Color coded glance at recently ingested data
- Available at:
<http://rime/archive/code/html/web/dataBrowser/Current.html>

* Requires VPN access to Sounder PEATE machines



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What We Process

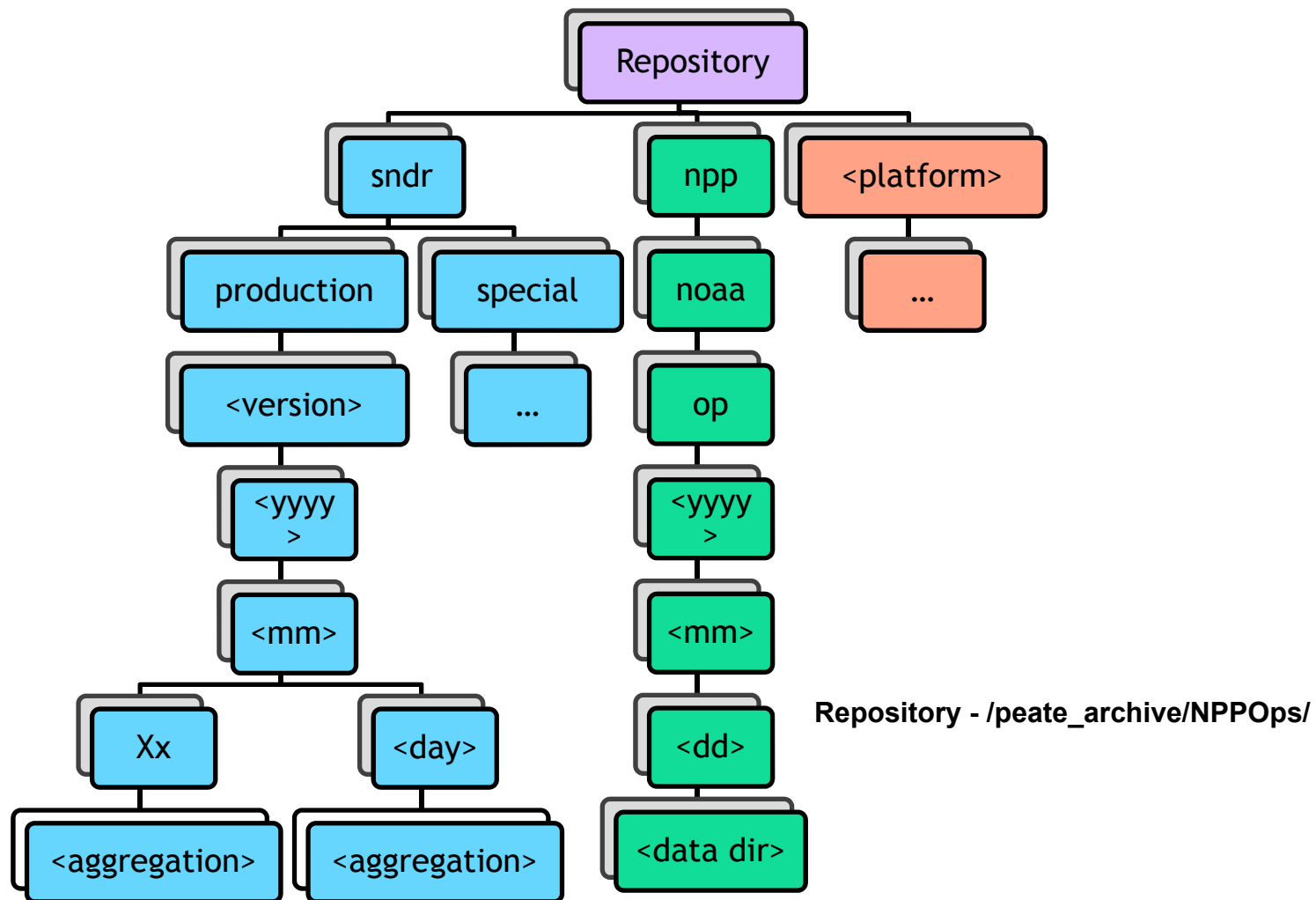
- **Daily products:**
 - MW Simultaneous Nadir Observation (SNOs) for Aqua, MetOp-A, Noaa18, Noaa19, NPP Platforms
 - Numerical Weather Forecast (ECMWF) interpolation on output
 - IR SNOs for Aqua, MetOp-A, NPP Platforms
 - ECMWF interpolation on output
 - Daily Maps:
 - NPP CRIS, MetOp-A IASI, Noaa18 AMSUA, Noaa19 AMSUA
 - MetOp-A IASI Calsub and RaObs
- **Focus day specific products:**
 - Granule based ECMWF interpolation for MetOp-A IASI and NPP CRIS data sets



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Where Are Data Products at Sounder PEATE?

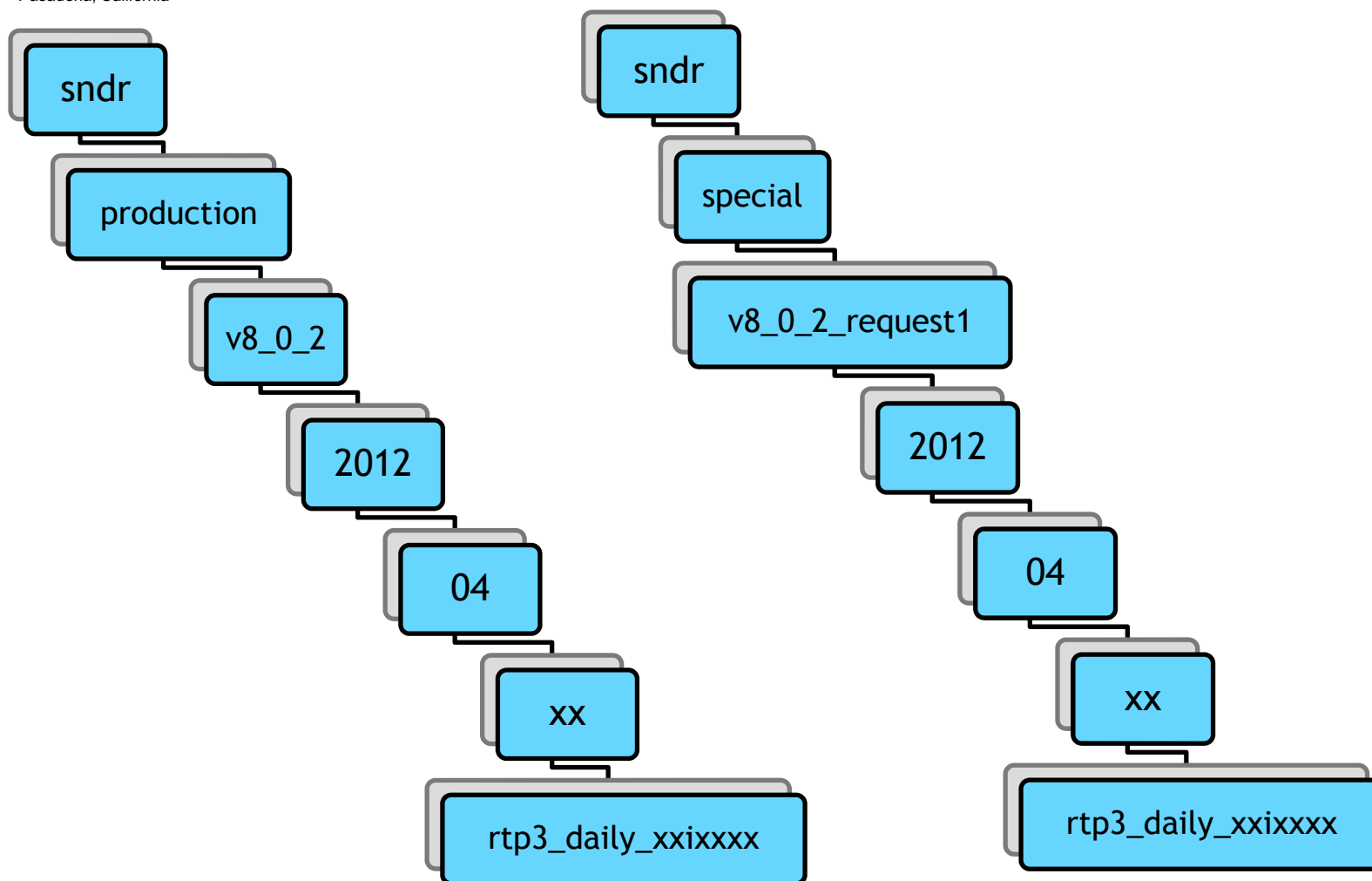




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Example: SNO 2012-04-12 (Standard, Special)

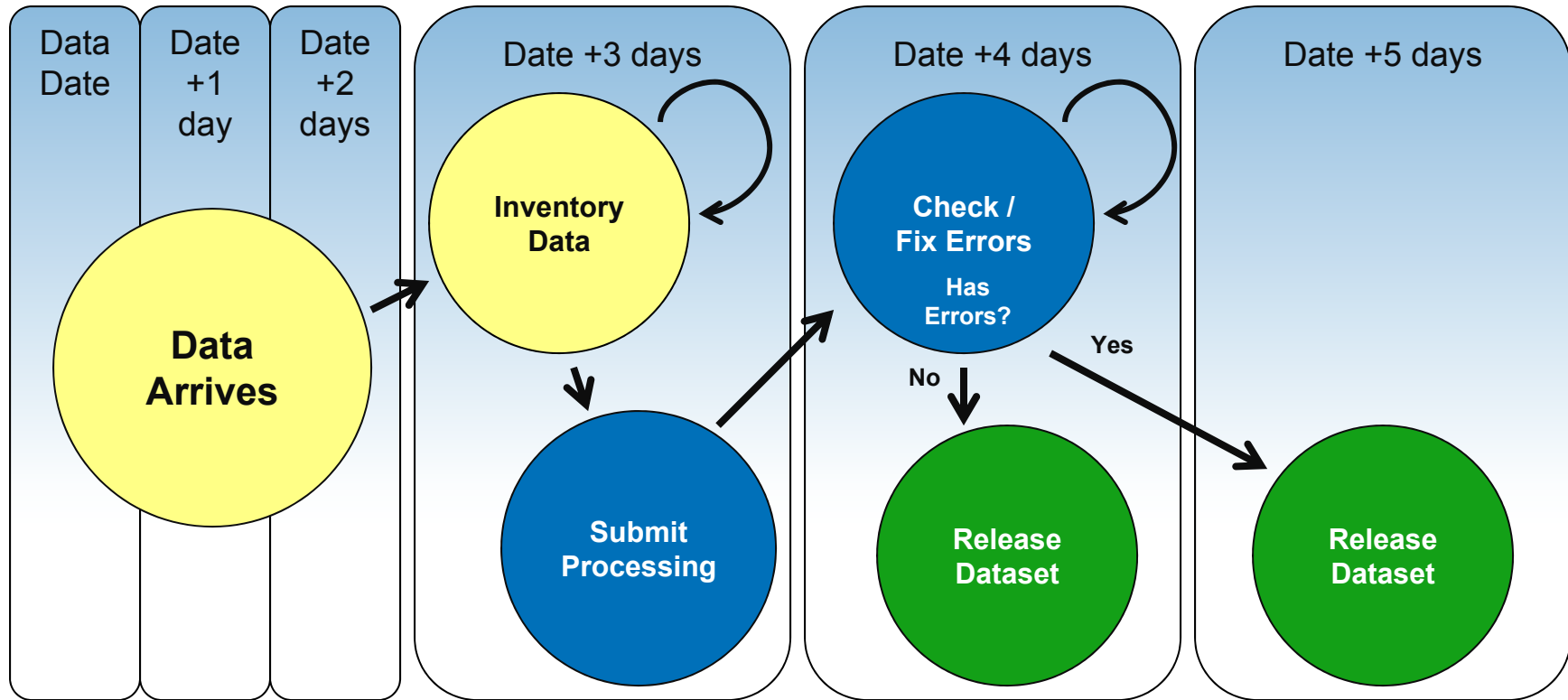




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Nominal Processing Mode



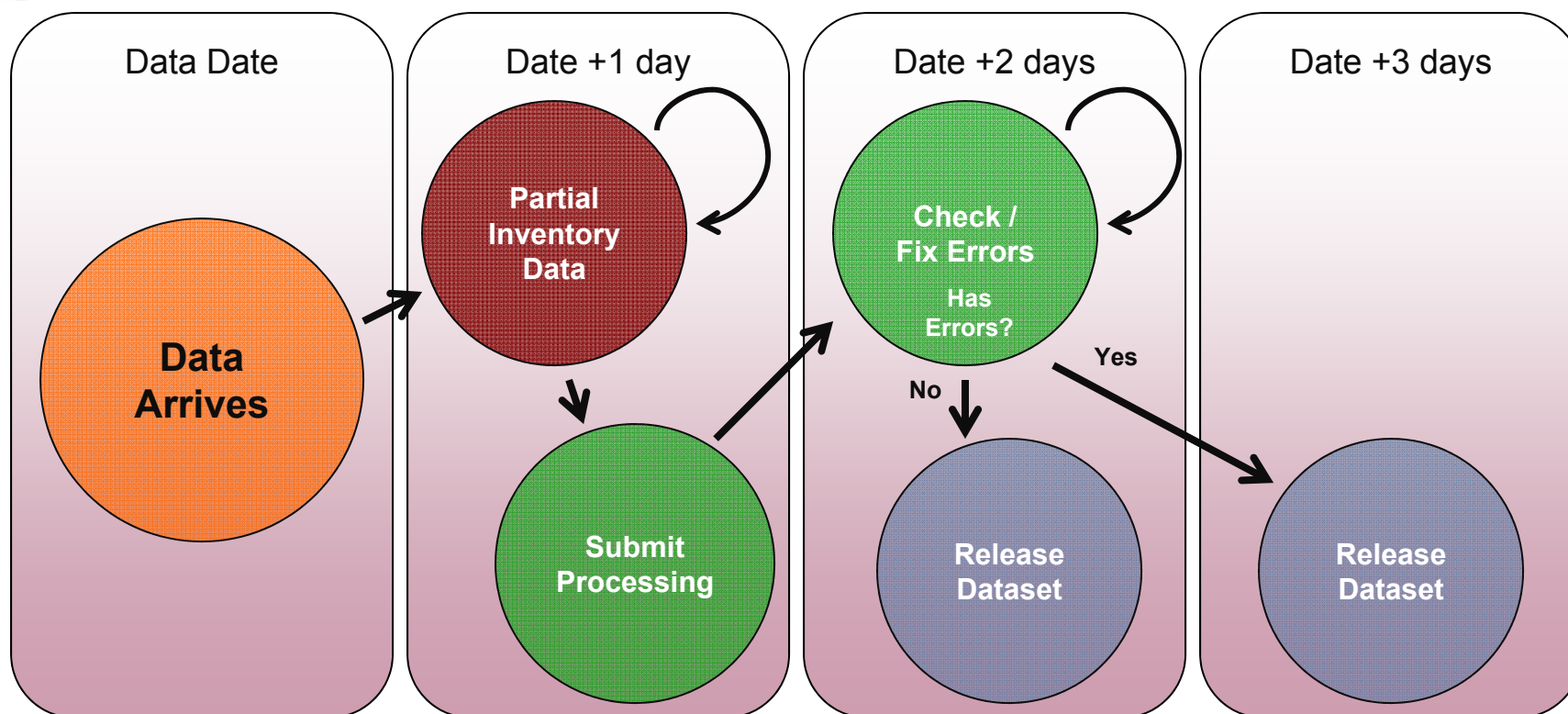
- SD3E/CLASS have 2 days to stabilize
- Data inventory: All supplier data obtained by PEATE



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Fast Response Mode



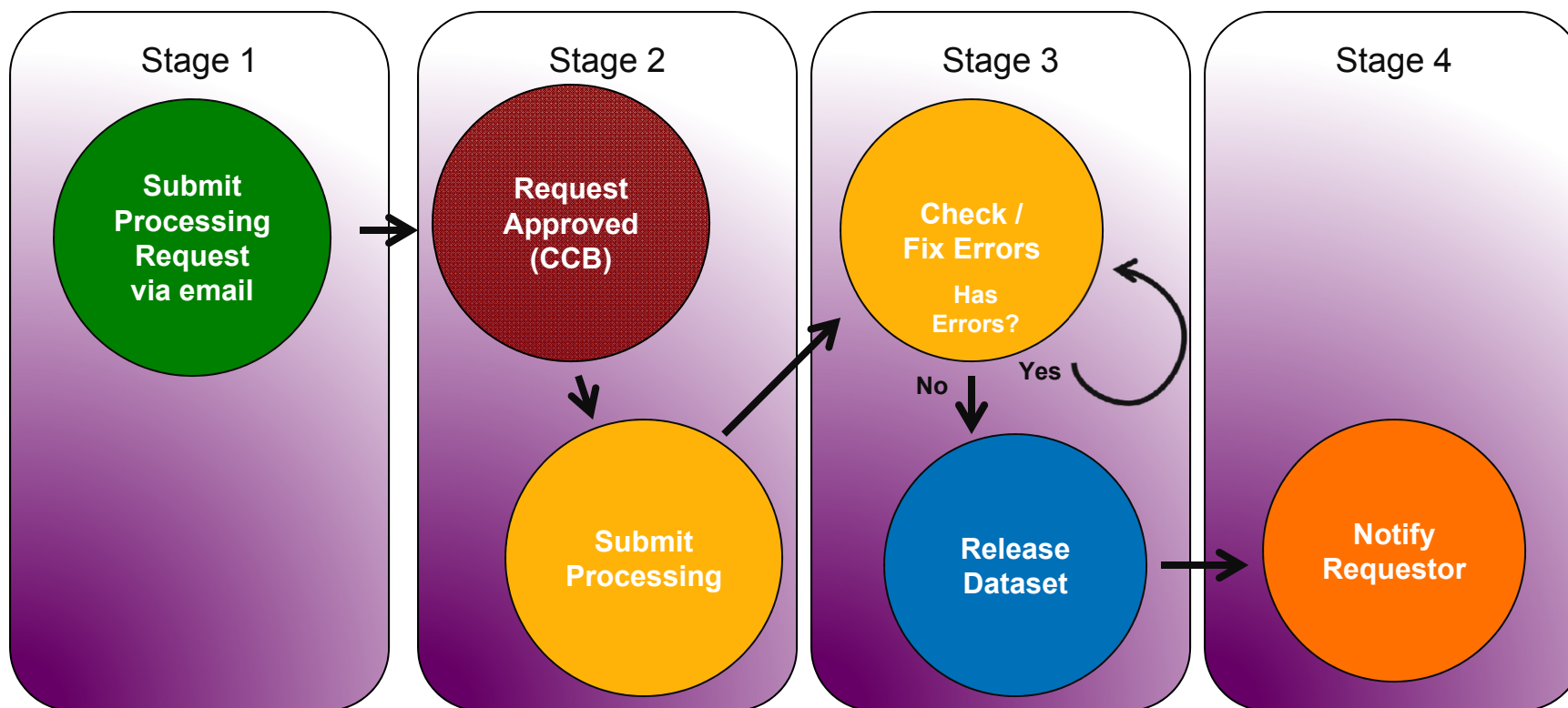
- SD3E/CLASS have ~8 hours to stabilize
- Inventory is a “best-effort” check against supplier
- Data products are produced 2 days sooner than nominal ops
- No determination on reprocessing of expedited dataset



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Processing Requests



- Requests are submitted to Ruth Monarrez via email
- Requests are approved by CCB before processing
- Non-standard production output are put in “special” collection



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Data Issues and General Questions

- **Processing Requests: Ruth Monarrez**
- **General Questions/Data Issues: Ruth Monarrez, Michael Starch**
- **Data alerts come from: Michael Starch**
- **Access to Sounder PEATE Data Archive: Steve Friedman**

Michael Starch (Michael.D.Starch@jpl.nasa.gov)

Ruth Monarrez (Ruth.Monarrez@jpl.nasa.gov)

Steve Friedman (steven.z.friedman@jpl.nasa.gov)



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Any Questions?

Questions?



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Processed Data Browser

	2012-04-13	2012-04-14	2012-04-15	2012-04-16	2012-04-17	2012-04-18	2012-04-19	2012-04-20
MOA_ORBITS/urn:npp:Orbits/SNDR_METOPA.METOPSD1.L1.Orbits	1	1	1	1	1	1	1	1
MOA_IASI_MAP/urn:npp:MoalasiMap-1/SNDR_METOPA.IASID1.L1.PolygonMap	1	1	1	1	1	1	1	1
MOA_AMSUA_MAP/urn:npp:MoAmsuaMap-1/SNDR_METOPA.AMSUAD1.L1.PolygonMap	1	1	1	1	1	1	1	1
MOA_MHS_MAP/urn:npp:MoAmsuaMap-1/SNDR_METOPA.MHSD1.L1.PolygonMap	1	1	1	1	1	1	1	1
NON_AMSUA_MAP/urn:npp:NonAmsuaMaps/SNDR_NOAA18.AMSUAD1.L1.PolygonMap	1	1	1	1	1	1	1	1
NOP_AMSUA_MAP/urn:npp:NopAmsuaMaps/SNDR_NOAA19.AMSUAD1.L1.PolygonMap	1	1	1	1	1	1	1	1
NPP_CRIS_MAP/urn:npp:NppCrisMaps/SNDR.NPP.CRISD1.L1.PolygonMap	1	1	1	1	1	1	1	1
MOA_IASI_POLY/urn:npp:MoalasiGPolygon-1/SNDR_METOPA.IASID1.L1.Polygons	1	1	1	1	1	1	1	1
MOA_AMSUA_POLY/urn:npp:MoAmsuaGPolygon-1/SNDR_METOPA.AMSUAD1.L1.Polygons	1	1	1	1	1	1	1	1
MOA_MHS_POLY/urn:npp:MoAmsuaGPolygon-1/SNDR_METOPA.MHSD1.L1.Polygons	1	1	1	1	1	1	1	1
NON_AMSUA_POLY/urn:npp:NonAmsuaMaps/SNDR_NOAA18.AMSUAD1.L1.Polygons	1	1	1	1	1	1	1	1
NOP_AMSUA_POLY/urn:npp:NopAmsuaMaps/SNDR_NOAA19.AMSUAD1.L1.Polygons	1	1	1	1	1	1	1	1
NPP_CRIS_POLY/urn:npp:NppCrisMaps/SNDR.NPP.CRISD1.L1.Polygons	1	1	1	1	1	1	1	1
MOA_IASI_CALSUB/urn:npp:MoalasiCalSub/SNDR_METOPA.IASID1.CalSub.sxxxx.NCP_IAS.CalSub_Clear	1	1	1	1	1	1	1	1
MOA_IASI_CALSUB/urn:npp:MoalasiCalSub/SNDR_METOPA.IASID1.CalSub.sxxxx.NCP_IAS.CalSub_Cloud	1	1	1	1	1	1	1	1
MOA_IASI_CALSUB/urn:npp:MoalasiCalSub/SNDR_METOPA.IASID1.CalSub.sxxxx.NCP_IAS.CalSub_Fixed	1	1	1	1	1	1	1	1
MOA_IASI_CALSUB/urn:npp:MoalasiCalSub/SNDR_METOPA.IASID1.CalSub.sxxxx.NCP_IAS.CalSub_Random	1	1	1	1	1	1	1	1
RTP3_Daily/Rtp3MoalasiAnalysis/SNDR_METOPA.IASID1.RTP3.sxxxx.ECW_IAS.CalSub_Clear	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAirsMoalasiSno/SNDR.AQUA.AIRSD1.RTP3.sxxxx.AIR.SNO_METOPA	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAirsMoalasiSno/SNDR_METOPA.IASID1.RTP3.sxxxx.IAS.SNO_AQUA	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAirsNppCrisSno/SNDR.AQUA.AIRSD1.RTP3.sxxxx.AIR.SNO_NPP	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAirsNppCrisSno/SNDR.NPP.CRISD1.RTP3.sxxxx.CRS.SNO_AQUA	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAmsuaMoAmsuaMhsSno/SNDR.AQUA.AMSUAD1.RTP3.sxxxx.AMA.SNO_METOPA	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAmsuaMoAmsuaMhsSno/SNDR_METOPA.AMSUAD1.RTP3.sxxxx.AMA.MHS.SNO_AQUA	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAmsuaNoaa18AmsuaMhsSno/SNDR.AQUA.AMSUAD1.RTP3.sxxxx.AMA.SNO_NOAA18	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAmsuaNoaa18AmsuaMhsSno/SNDR_NOAA18.AMSUAD1.RTP3.sxxxx.AMA.MHS.SNO_AQUA	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAmsuaNoaa19AmsuaMhsSno/SNDR.AQUA.AMSUAD1.RTP3.sxxxx.AMA.SNO_NOAA19	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAmsuaNoaa19AmsuaMhsSno/SNDR_NOAA19.AMSUAD1.RTP3.sxxxx.AMA.SNO_AQUA	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAmsuaNppAtmsRemapSdrSno/SNDR.AQUA.AMSUAD1.RTP3.sxxxx.AMA.SNO_ATMS_RSDR	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAmsuaNppAtmsRemapSdrSno/SNDR.NPP.ATMSD1.RTP3.sxxxx.ATR.SNO_AQUA	1	1	1	1	1	1	1	1
RTP3_Daily/urn:npp:AquaAmsuaNppAtmsTdrSno/SNDR.AQUA.AMSUAD1.RTP3.sxxxx.AMA.SNO_ATMS_TDR	1	1	1	1	1	1	1	1

- Operations tool, not ready for general release
- Used to expedite cleaning of data sets



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Content Mask (Naming Conventions)

ContentMask

- Content mask describes the data that is contained in the file

siimmbb

